

REMARKS:

In the foregoing amendments, claim 1 was amended by incorporating the limitations of claim 2 therein and claim 16 was amended by incorporating a part of the limitations of claim 18 therein. Claim 2 was canceled. By these amendments, claims 2 and 16 further define that the hollow portion of the housing includes an inner wall having an uneven portion for increasing bonding strength between the resin casing and the housing. In addition, claims 1 and 16 were amended by further defining that one end and another end (or portion) of the terminal pin protrude from the resin casing and that the hollow portion of the housing further includes a through hole penetrating the inner wall of the hollow portion. These aspects of the presently claimed invention are readily apparent from FIGS. 1 and 4C and elsewhere in applicant's specification disclosure.

Claims 1 and 16 were further amended to define that the sensing element is a "pressure" sensing element, as described throughout applicant's specification disclosure. Editorial amendments were also made to claims 1 and 16, as well as claims 3, 5, 7, and 9.

Claims 20-33 were withdrawn from consideration as being directed to a non-elected invention. Accordingly, claims 1 and 3-19 remain in the application for consideration by the examiner. Applicant respectfully requests a formal allowance of these claims for at least the following reasons.

Claims 1-19 were rejected under 35 U.S.C. §102(b) as being anticipated by JP 10-332495 of Shirai. This rejection as set forth on pages 2-5 of the Official action. Applicant respectfully submits that the teachings of Shirai do not disclose or suggest the inventions defined in claims 1

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and 3-19 within the meaning of 35 U.S.C. §102 or 35 U.S.C. §103 for at least the following reasons.

Independent claims 1 and 16 define a sensor comprising, *inter alia*, a hollow portion of the housing includes an inner wall having an uneven portion for increasing bonding strength between the resin casing and the housing, where *the hollow portion of the housing further includes a through hole penetrating the inner wall of the hollow portion*. The teachings of Shirai do not remotely contemplate or suggest these structures of the presently claimed invention. It is noted that near the bottom of page 3 of the Official action, when discussing claim 9, it was stated that the teachings of Shirai show the uneven portion is a through hole penetrating the inner wall of the hollow portion in FIG. 5. However, FIG. 5 or any other portion of Shirai does not remotely contemplate or suggest that the hollow portion of the housing includes a through hole penetrating the inner wall of the hollow portion, etc., as presently claimed. Viewing FIG. 5 of Shirai, no through hole is shown therein. The other figures and descriptions of Shirai are similarly deficient in that there is no suggestion or teaching of a hollow portion of the housing including an inner wall having an uneven portion for increasing bonding strength between the resin casing and the housing, where the hollow portion of the housing further includes a through hole penetrating the inner wall of the hollow portion, as required in present claims 1 and 16.

Please refer to FIGS. 1 and 4C of the present application. When the hollow portion 11 of the housing 10 has a cylindrical shape, the resin casing 40 may rotate around a center axis of the hollow portion in relation to the housing 10. However, when the hollow portion has the through hole (e.g., 15), as required in claims 1 and 16, the resin material composing the resin casing 40 is cast into the through hole (e.g., 15) in the insert molding process so that the resin casing 40 is

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hooked to the through hole (e.g., 15). Therefore, the resin casing 40 is prevented from rotating. For this reason, the inventions as defined in claims 1 and 16 which includes, in part, *the hollow portion of the housing further includes a through hole penetrating the inner wall of the hollow portion* provides a superior device to that proposed by Shirai. Since the teachings of Shirai do not disclose or suggest such structure of the presently claimed invention, applicant respectfully submits that claims 1 and 16, as well as the claims that depend thereon, are patently distinguishable from the teachings of Shirai within the meaning of 35 U.S.C. §102 or 35 U.S.C. §103.

Independent claims 1 and 16 also define a sensor comprising, *inter alia*, a *pressure* sensing element (30). While the teachings of Shirai allegedly propose a sensor including a thermistor (i.e., a thermal sensor (2)), the teachings of Shirai do not disclose or suggest the *pressure* sensing element (3) as required in claims 1 and 16. For this reason alone, applicant respectfully submits that claims 1 and 16, as well as the claims that depend thereon, are patently distinguishable from the teachings of Shirai within the meaning of 35 U.S.C. §102 or 35 U.S.C. §103.

Independent claims 1 and 16 further define a sensor comprising, *inter alia*, the two ends (e.g., one end and another end or portion) of the terminal pin protrude from the resin casing. The teachings of Shirai do not remotely contemplate or suggest these structures of the presently claimed invention. This can be seen by comparing, for example, FIG. 1 of the present application to the figures of Shirai. For these reasons, applicant respectfully submits that the inventions defined in claims 1 and 16, as well as the claims that depend thereon, are patently distinguishable from the teachings of Shirai within the meaning of 35 U.S.C. §102 or 35 U.S.C. §103.

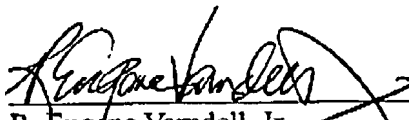
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Based on the foregoing amendments and remarks, favorable consideration and a formal allowance of claims 1 and 3-19 are respectfully requested. The foregoing is believed to be a complete and proper response to the Official action mailed April 6, 2007. While it is believed that all the claims in this application are in condition for allowance, should the examiner have any comments or questions, it is respectfully requested that the undersigned be telephoned at the below listed number to resolve any outstanding issues.

In the event this paper is not timely filed, applicant hereby petitions for an appropriate extension of time. The fee therefor, as well as any other fees which become due, may be charged to our deposit account No. 50-1147.

Respectfully submitted,
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